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U.S.PTO

STRUCTURE OF HAIR SCISSORS

BACKGROUND OF THE INVENTION

Field of the Invention:

This Invention relates to a new structure of hair scissors, particularly it is easy to combine multiple scissors into a single hair scissors for convenient in hair cutting and diverse in hair styling.

Description of the Related Art:

In general in the process of hair cutting or hair dressing, the barber or the hair stylist has to change more than frequently from the shears, scissors, clippers and thinners to achieve the hair style the customer wants. The change of hair cutting tool is time consuming. The barber or the hair stylist has to hold two pairs of scissor or shears for convenience, but the hair cutting tools the barber or the hair stylist holds are not yet combined into one tool, sometime they may render finger snapping or injury. In other word, it will take long time for the barber or the hair stylist becoming skilled in operating two tools in one time. Now a new scissors is available as shown in fig. 1, in which a long bolt is employed to unite two pair of scissors together. This design achieves the convenience, but it is hard to replace when one scissors is damaged or out of work.

The conventional combination designs of hair scissor is single an addition of process but costing more to the barber or hair stylist to buy and the customer to share, definitely it is not economical.

Viewing the weaknesses stated above, the inventor has dedicated his rich professional experience and knowledge for year to improving the combination design and finally come up this "structure of hair scissors" in hopes to provide the barbers and the hair stylists more convenient and smoother operation.

5 SUMMARY OF THE INVENTION

The main object of this invention is to provide an improved structure of hair scissors in which two blades are overlapped connected by a bolt and nut assembly for easily and fast connecting a plurality of scissors into an integral form to gain convenience in hair cutting or hairdressing and diverse styles.

10 To achieve the above mentioned object as well as the efficiency, the technology this invention has applied is the bolt and nut assembly which consists of a bolt, a plastic washer, a metal washer, a circlet and a lock nut. In particular the bolt is made of a threaded square shank to link the plastic washer, two blades, metal washer, and circlet and finally locked with the lock nut. The other end of the bolt is the head with an oval hole on its bottom to receive the threaded square shank which is therefore screwed in the hole and locked therein. The linkage composed of the bolt head and the lock are capable of combine several hairs scissor integrally.

This invention is explained in great detail with the aid of embodiments as
20 illustrated in the drawing attached.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 shows the appearance of the prior art of hair scissor.

Fig. 2 shows the schematic diagram of detail disassembly of the hair scissor
of this invention.

5 Fig. 3 shows appearance of the hair scissors of this invention.

Fig. 4 shows the disassembly of the hair scissors of this invention.

Fig. 5 shows the assembly of the hair scissors of this invention.

Fig. 6 shows the partial disassembly of the hair scissors of this invention.

Fig. 7 shows the cross section of the hair scissors of this invention.

10 Fig. 8 shows another embodiment of the hair scissors of this invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figs. from 2 through 8, the structure of hair scissor provided in
this invention to replace the pivot screw 30 which holds two blades 10 and the
handles 20 together in the hair scissors 1 with a especially designed bolt and nut
15 assembly 40. The bolt and nut assembly 40 is extendable to hold several hair
scissors together for diverse operation in hair cutting and hairdressing.

As shown in Fig. 2, the bolt and nut assembly 40 contains the bolt 41, the
plastic washer 42, and the metal washer 43, the circlet 44 and the lock nut 45. In
which the bolt 41 has a treaded square shank 411 and a bolt head 412 with an
20 oval hole 413 to lock therein the threaded square shank 411.

The plastic washer 42 is in the form of central hollow cone, sleeved on the thread shank 411 of the bolt 41 for purpose of adjusting the tightness of the bolt and nut assembly 40.

The metal washer 43 has a square hole 431 in the center to align with the 5 square shank 411 of the bolt 41. The metal washer 43 has a projected rib 432 along the rim of the metal washer 43.

The circlet 44 has a link hole 441 to receive the square shank 411 with the corrugated surface 442 at one end. When the circlet 44 overlaps on the metal 10 washer 43, the corrugated surface 442 will catch the projected rib 432 of the metal washer to produce a strong restraint on the bolt rotation. The circlet 44 has a flute 443 on the other end.

The lock nut 45 will receive the bolt 41 with inner threaded hole 451 to lock up the square shank 411.

In assembling, the plastic washer 42, the metal washer 43, the circlet 44 are 15 overlapped on the square shank 411 and locked by the lock nut 45 to form an integral structure of the hair scissors 1 as shown in Fig. 3.

If two sets of hair scissors 1 are connected together as shown in Fig. 4, take off the lock nut 45 of the bolt and nut assembly 40 and insert the square shank 411 of the blade 10 into the oval hole 413 of the bolt head 412, then turn in and 20 lock the square shank 411 therein. As shown in Figs. from 5 through 7, the circlet

45 will link two overlapped scissors **1**. The extended connection of the bolt and

nut assembly **40** will combine several sets of hair scissors together as shown in

Fig. 8.

The hair scissors provided in this invention eliminates much trouble for the

5 barbers and hair stylists in changing the scissors, shears and thinners. The users

have the option to make any combination as they want without changing the

appearance, structure with high interchangeability and practice.

The improved structure of hair scissors has benefited the practicable

effectiveness, justified for a grant of new patent.

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